

3.3.3. 3-SPEED HUB

Method of Fixing

How to fix the Twist Grip.

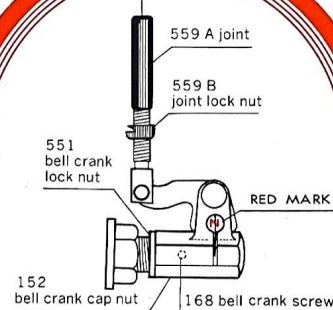
- At first, insert the push-rod #546 into the Axle #521.
- Next, screw in the Bell-crank-lock-nut #551 and then screw in the Bell-crank-cap-nut to the Axle shaft until the Bell-crank-screw #168 touch to the end of the Axle shaft.
- After setting the Bell-crank to a correct position tighten the Bell-crank-lock-nut #551.
- Fix the Twist grip the handle bar then set the indicator of the twist grip to the "N" position.
- Screw in the Joint #559A into the Joint pin as shown in the picture.
- Finally, by adjusting the Joint lock nut and the Joint pin set the Bell crank into an accurate position so as the red circled "N" mark and the combined line appears exactly through the groove of the Bell-crank-nut

GEAR TABLE (FRONT GEAR 48T)					
SPROCKET POSITION	14T	15T	16T	18T	19T
H	119.6"	109.2"	104"	93.6"	88.4"
	10.5T	11.3T	12.0T	13.5T	14.3T
N	88.4"	83.2"	78.0"	70.2"	65.5"
	14.0T	15.0T	16.0T	18.0T	19.0T
L	67.6"	62.4"	59.8"	52.0"	49.4"
	18.6T	20.0T	21.3T	23.9T	25.3T

Caution

SERIOUS DAMAGE ON 3-SPEED HUB WILL HAPPEN IF NOT ALWAYS ADJUSTED CORRECTLY. CHECK FREQUENTLY FOR A PROPER ADJUSTMENT.

Oil a few drops to the hub every 4 weeks.



WHEN THE TWIST GRIP IS IN THE POSITION OF "N", THE RED CIRCLED "N" MARK AND THE COMBINED RED LINE ENGRAVED ON THE BELL CRANK SHOULD COME TO THE EXACT POSITION SO AS TO BE SEEN EXACTLY THROUGH THE GROOVE ON THE CAP NUT.



SHIMANO

Shimano Industrial Co., Ltd.

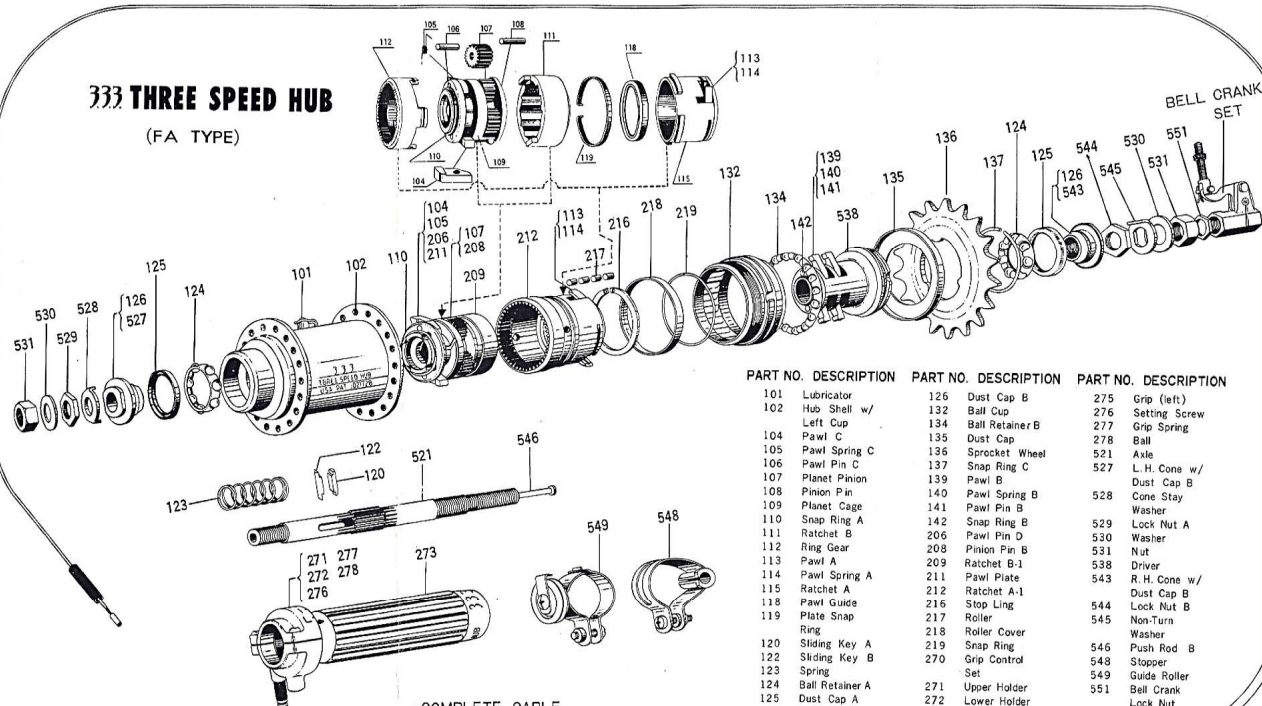
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THREE SPEED HUB
SHIMANO
INDUSTRIAL CO., LTD.

333 THREE SPEED HUB (FA TYPE)



PART NO.	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
101	Lubricator	126	Dust Cap B	275	Grip (left)
102	Hub Shell w/ Left Cup	132	Ball Cup	276	Setting Screw
104	Pawl C	134	Ball Retainer B	277	Grip Spring
105	Pawl Spring C	135	Dust Cap	278	Ball
106	Pawl Pin C	136	Sprocket Wheel	521	Axle
107	Planet Pinion	137	Snap Ring C	527	L. H. Cone w/ Dust Cap B
108	Pinion Pin	139	Pawl B	528	Cone Stay Washer
109	Planet Cage	140	Pawl Spring B	529	Lock Nut A
110	Snap Ring A	141	Pawl Pin B	530	Washer
111	Ratchet B	142	Snap Ring B	531	Nut
112	Ring Gear	206	Pawl Pin D	538	Driver
113	Pawl A	208	Pinion Pin B	543	R. H. Cone w/ Dust Cap B
114	Pawl Spring A	209	Ratchet B-1	544	Lock Nut B
115	Ratchet A	211	Pawl Plate	545	Non-Turn Washer
118	Pawl Guide	212	Ratchet A-1	546	Push Rod B
119	Plate Snap Ring	216	Stop Ring	548	Stopper
120	Sliding Key A	217	Roller	549	Guide Roller
122	Sliding Key B	218	Roller Cover	551	Bell Crank Lock Nut
123	Spring	219	Snap Ring		
124	Ball Retainer A	270	Grip Control Set		
125	Dust Cap A	271	Upper Holder		
		272	Lower Holder		